

XYRON™ L542Z

Polyphenylene Ether + PS
Asahi Kasei Chemicals Corporation

Message:

Modified PPE
20% Filler reinforced Flame retardant V-0
Stiffness High, Warpage Low, Easy Flow

General Information			
UL YellowCard	E82268-100083289	E82268-250894	E82268-531714
Filler / Reinforcement	Filler,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Flow		
	High Stiffness		
	Low Warpage		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.25 to 0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.060	%	ISO 62
Outdoor Suitability (Black)	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	76.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	5410	MPa	ISO 178
Flexural Stress (23°C)	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	5.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	120	°C	ASTM D648
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.10		

Dissipation Factor		IEC 60250	
100 Hz	4.0E-3		
1 MHz	6.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-1		
1.60 mm	V-0		
2.40 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	250 to 300	°C	
Mold Temperature	70.0 to 90.0	°C	
NOTE			
1.	150x150x2 mm		
2.	4 mm		

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